

ABSTRACT

The device for the acquisition and automatic processing of data obtained from optical codes comprises a CMOS optical sensor; an analog processing unit connected to the optical sensor; an analog/digital conversion unit connected to the analog processing unit; a logic control unit connected to the CMOS optical sensor, the analog processing unit and the analog/digital conversion unit; and a data-processing unit connected to the logic control unit and the analog/digital conversion unit. The CMOS optical sensor and at least one of the analog processing, analog/digital conversion, logic control and data processing units are integrated in a single chip. The data processing unit processes the digital signals corresponding to the image acquired by the CMOS sensor and the optically coded data.